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PRESS RELEASE

GRAS Releases New Automotive 6-microphone Arrays

The Gold Standard in Automotive Cabin Acoustic Tests

HOLTE, DENMARK, August 5, 2025 - GRAS Sound & Vibration, an Axiometrix Solutions company, is pleased to announce the release of the GRAS PR0003 and PR0004 AutoArrays. These robust, 6-microphone arrays are engineered for precise and repeatable in-cabin acoustic measurements. The PR0003 utilizes a “Cross” configuration based on established test methodologies used by connected car system companies such as Harman. Alternatively, the PR0004 adopts an “AES” configuration aligned with the AES TC-AA (Audio Engineering Society Technical Committee on Automotive Audio) guidelines. These arrays enable high-resolution spatial characterization of vehicle interiors, empowering automotive OEMs and audio engineers to quantify and optimize cabin soundscapes accurately.

Helping Automotive Engineers Meet Rising Demands for Faster, Smarter Testing

As the automotive industry faces increasing demands for innovation, sustainability, and customer comfort, the need for efficient and accurate testing has never been more critical.

Today's automotive manufacturing engineers face significant challenges navigating evolving noise and emissions regulations alongside the rapid development of electric vehicles. Simultaneously, they must ensure optimal in-cabin acoustics while striving for faster, more cost-efficient, and high-quality results.

Traditional measurement setups often come with long setup times, repetitive test cycles, and inconsistent data. Today's announcement of the new automotive 6-microphone arrays addresses these challenges and streamlines acoustic testing for automotive engineers. GRAS' new array technology helps reduce setup time, improve data reliability, and free up engineering resources, enabling manufacturers to deliver quieter, better-performing vehicles while maintaining a competitive edge.

A great tool for in-cabin acoustic measurements

Additionally, the GRAS PR0003 and PR0004 AutoArrays can be used in any acoustic test application that requires the use of a microphone array. The AutoArrays can be used for applications such as:

- Audio system performance test/characterization
- Audio system tuning
- Cabin acoustic benchmarking
- In-cabin sound field investigation
- In-cabin NVH measurements

Key features of the PR0003/PR0004:

- **Single-cable convenience:** All six microphone signals are wired internally and channelled through a 7-pin LEMO connector, simplifying setup and reducing clutter.
- **Adjustable pitch angle:** The array angle can be fixed at 30° or adjusted freely to accommodate other angles. An inclinometer is included and can be magnetically attached to the array to measure the exact pitch angle.
- **Precise positioning tools:** The array can be slid up and down with a ruler to recall the exact position. The height of the seat mount can be adjusted. Bull's eye spirit levels and a ball-joint at the base will allow the user to place the array in exactly the desired position.
- Robust build quality, optimized for 1/4" measurement microphones.

Complete solution for in-cabin tests

Axiometrix Solutions offers a full in-cabin acoustic measurements solution with the use of the AutoArrays, GRAS 1/4" microphones and Audio Precision APx audio analyzers and software. The new GRAS PR0003 and PR0004 AutoArrays can be paired with any 1/4" measurement microphone with a microdot connector, but work best with GRAS high-sensitivity 1/4" microphones like the GRAS 46BL-1 pressure microphone, or the 46BC multifield microphone that has an optimized frequency response for non-ideal sound fields, like the car cabin.

Santiago Rayes, Product Manager, GRAS Sound & Vibration says:

"Acoustic measurement inside a car cabin has long challenged engineers. Our six-microphone AutoArrays provide fast, repeatable results and can be used alongside single microphones and artificial heads to meet the diverse needs of modern in-cabin acoustic testing, including new technologies such as advanced audio systems, active noise cancellation, voice assistants, and rising consumer expectations for premium sound experiences."

More information can be found here

<https://www.grasacoustics.com/the-gold-standard-in-in-cabin-acoustic-testing>

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Images to accompany this press release

Fig. 1: Installment of the GRAS AutoArray

Fig. 2: Portrait Santiago Rayes, Product Manager, GRAS Sound & Vibration

Fig. 3: GRAS PR0003 AutoArray Cross Configuration with GRAS microphones

Fig. 4: GRAS PR0004 AutoArray AES Configuration with GRAS microphones

ABOUT GRAS SOUND & VIBRATION:

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability, and accuracy that our customers have come to expect, trust and require.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of

globally recognized measurement brands, including Audio Precision, and imc test and measurement.



Read more at www.GRASacoustics.com